

New Mexico State University Klipsch School of Electrical & Computer Engineering

MAY 31 – JUNE 1, 2008

NMSU

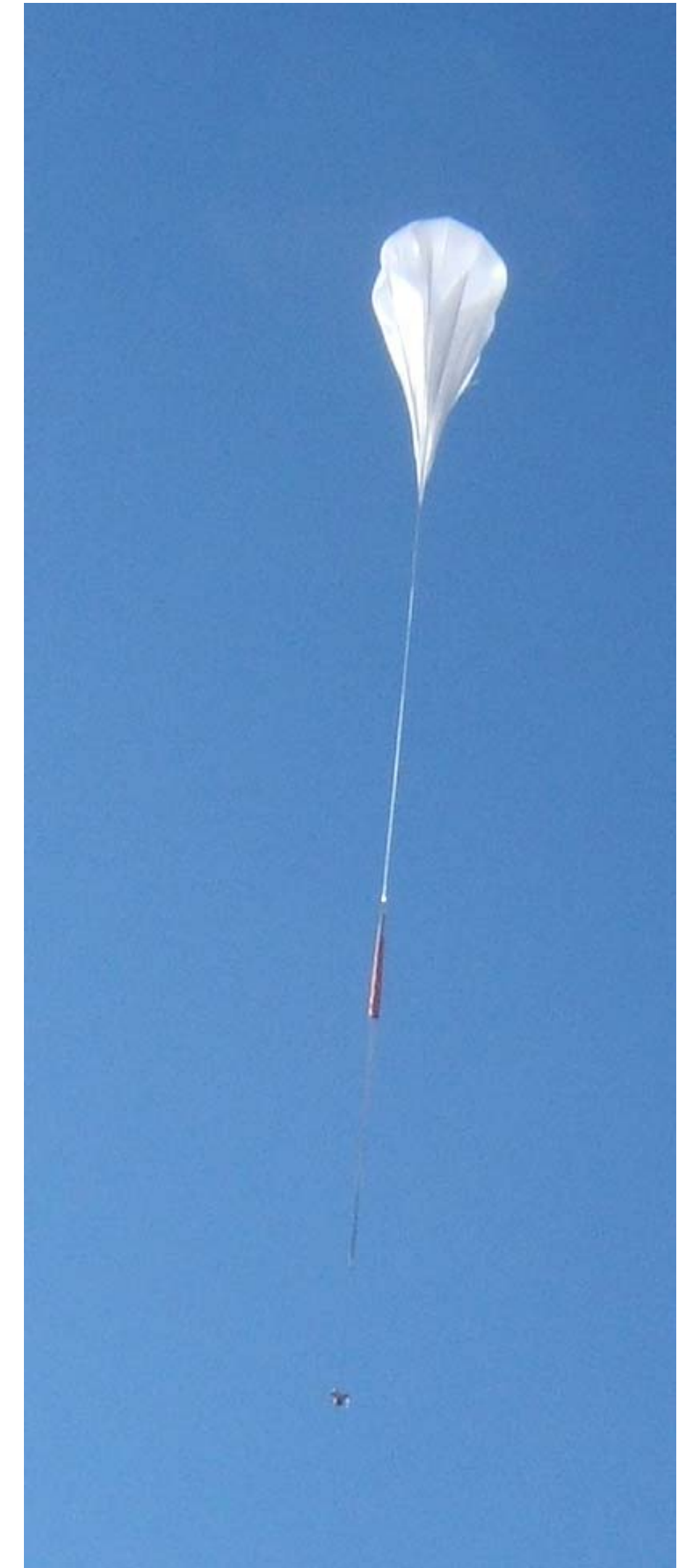
BalloonSat Mission

MISSION GOALS:

- **Science Goal:** Measure the earth and space UV intensity every 10 seconds for at least 45 minutes at night
- **Engineering Goal:** Demonstrate the capabilities of the hardware and software components needed for orbital missions
- **Outreach Goal:** Provide public view of operations via the amateur radio APRS network
- **Bonus Features:** takes pictures upon operator command and operate payload remotely over the Internet

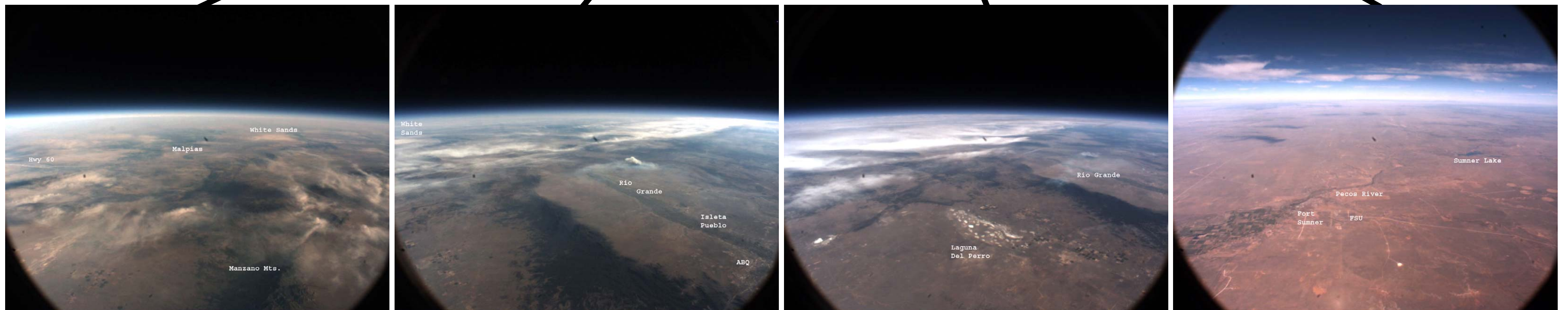


Balloon inflated for launch

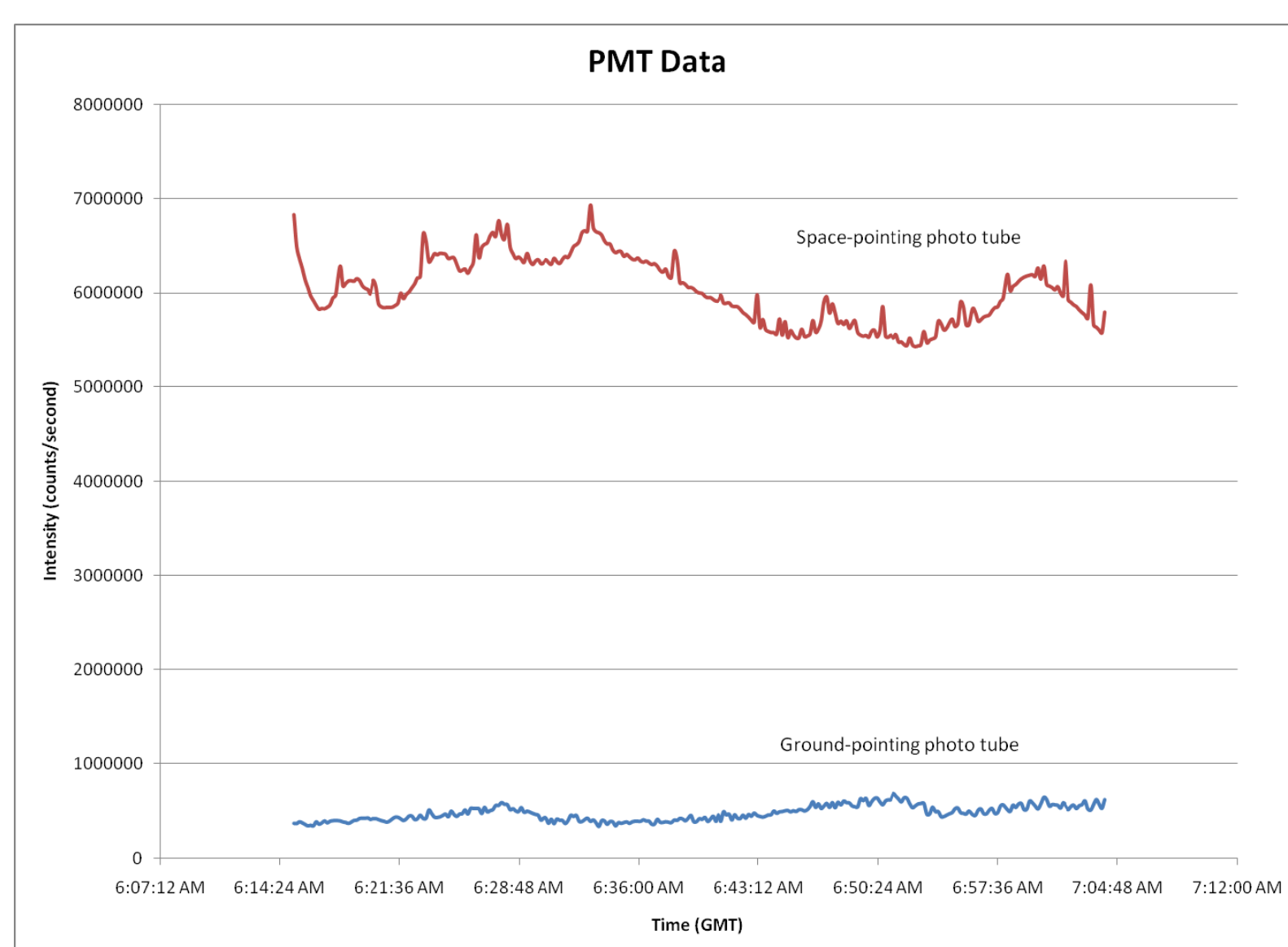


Balloon, parachute, and payload carrier at launch

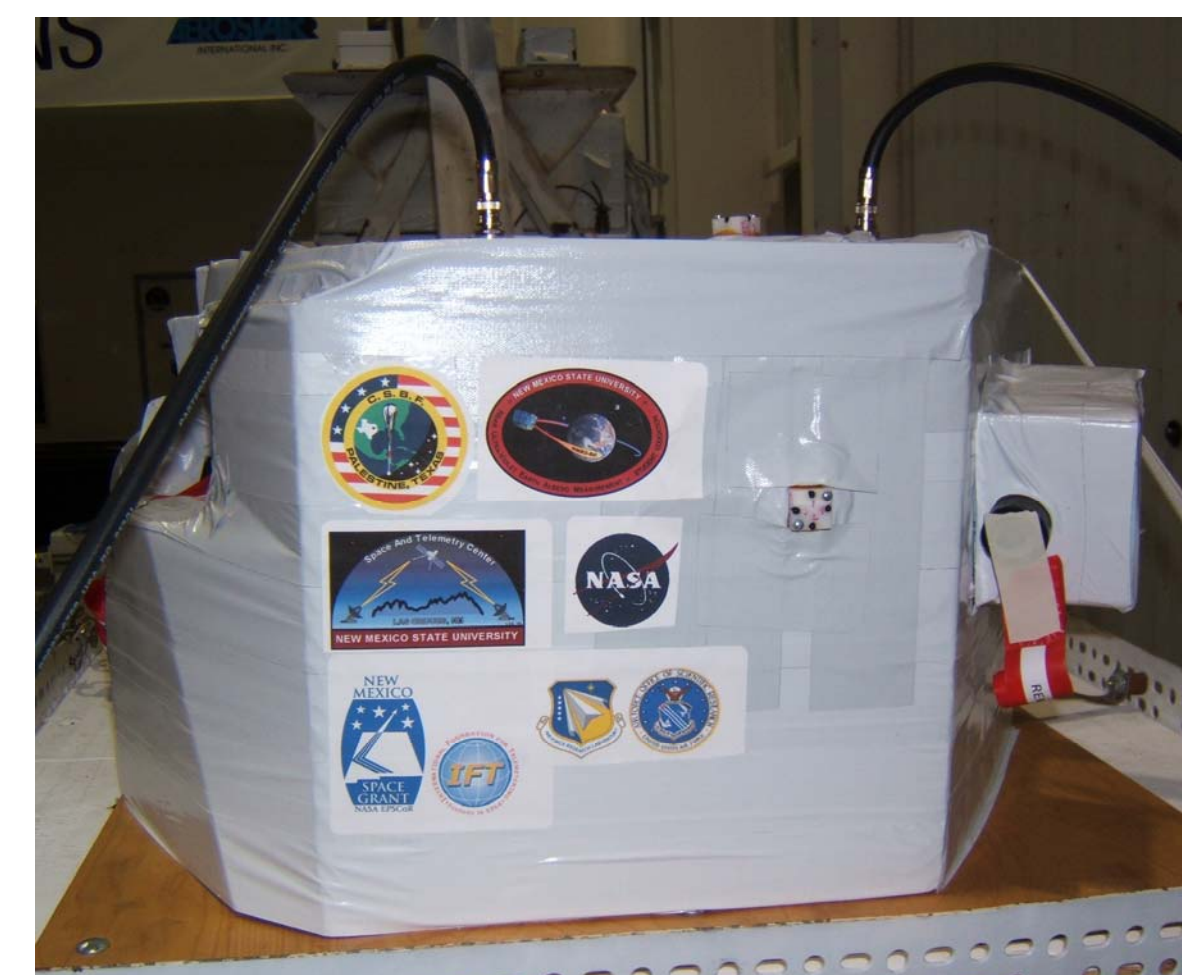
Balloon ground track from Fort Sumner, NM to central Arizona



Photographs taken from the payload during the mission



Science experiment: collect UV measurements of the atmosphere and space during the night.



NMSU *BalloonSat* payload containing flight computer, radio communications, photomultiplier tubes for UV measurements, camera, GPS, magnetometer/rate gyro, earth sensors, and payload monitor sensors.

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